

WHAT IS CLAIMED IS:

1. A metal unitary structural member, comprising:
 - an elongated, axially extending central portion;
 - a plurality of web portions extending radially from said central portion and extending in an axial direction along a length of said central portion; and
 - a plurality of radially outer portions extending in said axial direction along a length of said central portion and between said web portions in cross-section, said plurality of outer portions defining a outer surface of the member.
2. The member of claim 1 wherein said plurality of outer portions are arched in cross-section.
3. The member of claim 1 wherein said plurality of web portions each include a plurality of perforations.
4. The member of claim 3 wherein said plurality of perforations are radially disposed between said central portion and said radially outer surface.

1 5. The member of claim 3 wherein said perforations are disposed within
2 said plurality of web portions radially symmetrically about said central
3 portion.

1 6. The member of claim 3 wherein said perforations are axially disposed
2 within said plurality of web portions at axial intervals.

1 7. The member of claim 1 wherein said central portion is curvilinear.

1 8. The member of claim 1 wherein said plurality of web portions are
2 curvilinear.

1 9. The member of claim 1 wherein said plurality of web portions varies in
2 radial length at various axial positions along the member.

1 10. The member of claim 1 wherein said central portion and said plurality
2 of web portions have a curvilinear radial trajectory.

1 11. The member of claim 1 wherein said central portion and said plurality
2 of web portions have a linear radial trajectory.

1 12. The member of claim 1 further including a connecting structure on at
2 least one axial end for connecting to another member.

1 13. The member of claim 12 wherein said connecting structure includes a
2 connector that is self-registering.

1 14. A metal unitary structural member comprising:
2 a plurality of perforated web portions extending radially from each
3 other and extending with each other in an axial direction; and
4 a plurality of outer portions extending in an axial direction with said
5 web portions and extending between said web portions in cross-section,
6 said plurality of outer portions defining a radially outer surface of the
7 member.

1 15. The member of claim 14 wherein said plurality of outer portions are
2 arched in cross-section.

1 16. The member of claim 14 wherein said perforations are axially disposed
2 within said plurality of web portions at axial intervals.

1 17. The member of claim 14 wherein an axis of the member is curvilinear.

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1 23. The member of claim 21 wherein said perforations are axially disposed
2 within said plurality of web portions at axial intervals.

1 24. The member of claim 21 wherein said central portion is curvilinear.

1 25. The member of claim 21 wherein said plurality of web portions varies in
2 radial length at axial positions along the member.

1 26. A metal unitary structural member comprising:
2 an elongated, axially extending central portion;
3 a plurality of perforated web portions extending radially from said
4 central portion and extending in an axial direction along a length of said
5 central portion; and
6 a plurality of outer portions extending in an axial direction along a
7 length of said central portion and between said web portions in cross-
8 section, said plurality of outer portions being arched in cross-section,
9 said plurality of outer portions defining an outer surface of the member.

1 27. The member of claim 26 wherein said central portion is curvilinear.

1 28. The member of claim 26 wherein said plurality of web portions are
2 curvilinear.

1 29. The member of claim 26 wherein said plurality of web portions varies in
2 radial length at various axial positions along the member.

1 30. The member of claim 26 wherein said central portion and said plurality
2 of web portions have a curvilinear axial trajectory.

1 31. The member of claim 26 wherein said central portion and said plurality
2 of web portions have a linear axial trajectory.